DISTRIBUTION STATEMENT

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11 TITLE (Include Security Classification) PERFORMANCE ORIENTED PACKAGING TESTING OF SAFETY AND ARMING ASSEMBLIES FOR THE BLU 91/B AND BLU 92/B MINES Packed 144 Per Wood Box 12. PERSONAL AUTHOR(S)								
DZURY, CHRIS								
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SEE ATTACHED								
17 COS	ATI CODES		18 SUBJECT TERMS ((Continue on reverse if necessary and identify by block number)				
FIELD GROUP	SUE	3-GROUP	-					
19 ABSTRACT (Continue on reverse if necessary and identify by block number) This report contains the test results and test procedures for Performance Oriented Packaging Tests performed on the pack for both the Safety and Arming Assembly for the BLU 91/B Mine and the BLU 92/B Mine. This pack consists of 144 Safety and Arming Assemblies in a fiberboard box inner pack with a wooden box outer pack. Both Safety and Arming Assemblies are packed in the same way and have the same Proper Shipping Name and Identification Number which is "Fuzes, Detonating UN 0257".								
93-01778								
20 → STRIBUTION : AVAI	21 ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED							
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1. DATA SHEET

Container:

Type: Box

UN Code: 4C

Specification Number: PPP-B-621

Material: Wood

Capacity: 2126.67 cubic inches

Dimensions: Inside: 17 3/4 X 13 1/2 X 8 7/8

Tolerance: ± 1/8

Packing and Marking Drawing: 12937990

Gross Container Weight: 43 lbs

Closure Method (Method/Type): Metal Strapping

Product 1:

Name: Safety and Arming Assembly for the BLU 91/B Mine

NSN: 1345-01-153-2816

Proper Shipping Name: Fuzes, Detonating

Identification Number: UN 0257

Physical State: Solid

Quantity per Container: 144

Product 2:

Name: Safety and Arming Assembly for the BLU 92/B Mine

NSN: 1345-01-204-4282

Proper Shipping Name: Fuzes, Detonating

Identification Number: 0257

Physical State: Solid

Quantity per Container: 144

2. BACKGROUND:

This report contains the testing and test results performed on the pack for both the Safety and Arming Assembly for the BLU 91/B Mine and for the Safety and Arming Assembly for the BLU 92/B Mine. Both Safety and Arming Devices are packed twenty-four (24) S & A's per PVC plastic tray, six (6) trays (144 S & A's total) per fiberboard box. A barrier bag is sealed around the trays inside of the fiberboard box, with a bag of desiccant inside, for moisture protection. Each tray has twenty-four S & A compartments and a PVC lid which snaps into place on top of the tray. The sealed fiberboard box is then placed into a wood box which is sealed with metal strapping. The two types of S & A Assemblies are always shipped separately.

For purposes of testing, the fiberboard box was packed with steel weights and filler. After the the wood box was packed out, the final weight of each box tested was 62 lbs with the exception of one box, which was drop tested. Its final weight was 47.5 lbs. Each wood box was sealed with metal strapping.

TESTING AND RESULTS: 3.

The following tests were conducted in accordance with Code of Federal Regulations Title 49:

a. Stacking Test:

Three boxes were placed under a load of 2560 lbs. for 24 This exceeded the POP requirement which is the weight a box would see at the bottom of a stack ten feet high. There was no leakage or spillage of contents from the fiberboard box innerpacks or wood box outerpacks.

b. Loose Cargo Test:

Three boxes, which were stack tested, were loose cargo tested for 1 hour on a table with a metal floor and wood constraining There was no leakage or spillage of contents from the fiberboard box innerpacks or wood box outerpacks.

c. Drop Testing:

One box with no prior testing was drop tested onto a metal surface from four feet in the following orientations:

- 1. top
- 2. bottom
- 3. long side
- 4. short side
- 5. directly on a corner

There was no leakage or spillage of contents from the wood box.

CONCLUSION:

This packaging configuration has successfully met the requirements of Performance Oriented Packaging Testing (no leakage or spillage of contents from the packaging) and is considered safe for domestic and international shipment.

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